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PV Beum, MA Lindorfer, BE Hall, TC George... - Journal of ..., 2006 - Elsevier
 ... Cells were stained with fluorescently-labeled RTX and mAbs specific for C3b/iC3b fragments or for human IgG, and then imaged using the ImageStream cytometer and analyzed with an algorithm (**Similarity Bright Detail Score, SBDS**) which tests for co-localization of fluorescent ...
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Melatonin treatment of winter depression following total sleep deprivation: waking EEG and mood correlates

KV Danilenko... - Neuropsychopharmacology, 2005 - nature.com
 ... in contrast to our positive experience with **bright** light in **similar** populations (Palchikov ... Evidence from the waking electroencephalogram that short sleepers live under higher homeostatic sleep ... Outlasting antidepressant effect of late partial sleep deprivation by **bright** light therapy ...
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C Jung, Q Liu... - Pattern Recognition Letters, 2009 - Elsevier
 ... In Section 2, we describe the stroke filter in **detail**. ... (2) its lateral regions are **similar** to each other ... There is also the interval, d_2 , between the central region and lateral regions in the stroke filter, because dark or **bright** lines are often embedded around some texts to convey their ...
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Behavioral Similarities and Differences among Alcohol-Preferring and-Nonpreferring Rats:

Confirmation by Factor Analysis and Extension to Additional Groups

DH Overstreet, JA Heikk... - Alcoholism: Clinical ..., 1997 - Wiley Online Library
 ... Behavioral **Similarities** and Differences among Alcohol ... rats that were selectively bred for differences in behavioral traits, such as the Tryon maze **bright** and maze ... Behavioral Tasks and Sequence The **details** of the behavioral apparatus used in these studies have been described ...
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A new approach for text segmentation using a stroke filter

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C Jung, Q Liu... - Signal Processing, 2008 - Elsevier
 ... 5. **Bright** and dark stroke filter (SF) response maps: (a) synthetic image, (b) **bright** SF response map and ... Step 3: For each black pixel in the 3x3 regions, if it is: (1) **similar** to its ... The average recognition **score**, S_A , of the segmented text image is represented by these two scores as ...
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Funduscopic lesions associated with mortality in shaken baby syndrome* 1,* 2

M Mills - Journal of American Association for Pediatric ..., 1998 - Elsevier
 ... **Details** of the ophthalmic findings in each case are reported in Tables 1 and 2. Of the 10 ... and following responses on lights or toys, and two responded with lid closure to **bright** light. ... with a specific pattern of intraocular injury that is likely the result of a **similar** inertial mechanism. ...
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C Jung... - Multimedia and Expo, 2008 IEEE International ..., 2008 - IEEEexplore.ieee.org
 ... all variables stand for descriptions F1 and F2, respectively, and ak_i is the **similarity** coefficient between ... 4 shows the key caption decision procedure using the color pattern in **detail**. ... of easily segmenting character regions with different color polarities (ie dark and **bright** texts) from ...
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Robust detection of key captions for sports video understanding

C Jung, SY Lee... - Image Processing, 2008. ICIP 2008. ..., 2008 - IEEEexplore.ieee.org
 ... variables stand for descriptions F1 and F2, respectively, and ak_i is the **similarity** coefficient between ... The regions such as inning, **score**, out, ball count, player name inside of the key ... method of easily extracting a character or number region having dark and **bright** colors inverted ...
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H Arp... - Arxiv preprint astro-ph/0504237, 2005 - arxiv.org
 ... The relevant parameters are discussed in **detail** and referenced in Pietsch et al ... There are many radio continuum investigations around this close pair of X-ray **bright** quasars ... **Similar** examples of displaced radio sources have been shown near the ejecting Mrk 231, 3C212 and Arp ...
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by EK Zuba-Surma - 2008

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morphometric alterations of Tetrahymena, the rounding ...

condensation revealed by **photometric** measurements of ...

www.chemotaxis.usn.hu/CHTX/hpg/Pdf/KPCeramid.pdf

George TC. Distinguishing modes of cell death using the ...

Jun 1, 2004 ... METHODS: Live, necrotic, and early and late

apoptotic cells were prepared ... the ability to couple

morphometric with **photometric** measures ...

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Estrogen Increases Bone Marrow-Derived Endothelial Progenitor Cell ...

by K Strehlow - 2003 - Cited by 269 - Related articles

Jun 16, 2003 ... For **morphometric** analyses, hematoxylin-eosin staining was performed ... the rate of **apoptosis** was determined by **photometric** measurement at 492 nm. To detect a potentially decreased **apoptosis** as the underlying ...

circ.ahajournals.org/cgi/content/full/107/24/3059 - Similar

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... immunophenotyping with quantitative **morphometric**

measurements that can ... This makes possible the

automated identification of **apoptotic** nuclear morphology .

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Depolymerization of F-actin during the TNFα-induced

apoptosis occurs after the generation of ceramide in

mammalian cells [22]. The **morphometric** alterations ...

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As it was necessary to **identify** an area within the park territory which would be suitable ... of forest cover in an area featuring **complex morphological features** ... The Digital Terrain Model describes the **morphological features** of the ...

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method was evaluated **using** QuickBird **multispectral images** over urban areas. The results show that the proposed ... QuickBird, it is possible to **identify** small- scale features such ... Because of the **complex** nature and diverse composition of ... combining spectral data and obtained **morphological feature** ...

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Programmed **cell death** of plant tracheary elements differentiating in vitro

A Groover, N DeWitt, A Heidel... - Protoplasma, 1997 - Springer

... Eventually, cytoplasmic streaming would cease abruptly, followed by a rapid shrinking.

Morphological features of the protoplast fragments are shown in Fig. ... 3 A). To determine Page

6. 202 A. Groover et al.: Tracheary element programmed **cell death** ...

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Cytometry in **cell** necrobiology: analysis of apoptosis and accidental **cell death** (necrosis)

Z Darzynkiewicz, G. Juan, X Li... - Cytometry Part A, 1997 - interscience.wiley.com

... Examples of **cell death** have been described in which the pattern of **morphological**

and/or biochemical changes neither resembled typical apoptosis nor necrosis

but often had **features** of both (1,5,10,11,34,77, 108). ...

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Evidence of apoptotic **cell death** after experimental traumatic brain injury in the rat.

A Rink, KM Fung, JQ Trojanowski... - The American journal of pathology, 1995 - ncbi.nlm.nih.gov

... TUNEL histochemistry was used to **identify** DNA fragmentation in situ at both light and electron

micro- scopical levels, whereas characteristic internucleoso ... At the ultrastructural level, these cells

displayed **morphological features** consis- tent with necrotic **cell death**(Figure 1C). ...

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[HTML] Programmed **cell death** and Bcl-2 protection in the absence of a nucleus.

MD Jacobson, JF Burne... - The EMBO Journal, 1994 - ncbi.nlm.nih.gov

... membrane integrity observed by light microscopy (see Figure 1). Thus, staurosporine-induced

cell death in GM701 cells occurs with the **morphological features** and sequence ... induces PCD

in anucleate GM701 cytoplasts and Bcl-2 is protective To determine whether the ...

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Apoptotic **death** in epithelial cells: cleavage of DNA to 300 and/or 50 kb fragments prior to or in the absence of internucleosomal fragmentation.

F Oberhammer, JW Wilson, C Dive... - The EMBO journal, 1993 - ncbi.nlm.nih.gov

... We have re-examined this dogma by comparing the biochemical and **morphological features**

of cell **death** in several epithelial **cell** types (HT-29-11 colon adenocarcinoma, CC164 mink lung,

DU-145 human prostatic carcinoma and MCF-7 human breast adeno- carcinoma) and ...

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Developmental **cell death**: **morphological** diversity and multiple mechanisms

PGH Clarke - Anatomy and embryology, 1990 - Springer

... The **morphological** types are as follows. ... Thus, some inconstant **features**, such as the swelling

of mitochondria in types 2 and 3, have been omitted. ... 1976). Nevertheless, heterophagy

does in general seem to be most prominent in type 1 **cell death**. ...

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[HTML] Lessons from sudden coronary **death**: a comprehensive **morphological** classification scheme for atherosclerotic lesions

R Virmani, FD Kotroglie, AP Burke... - ... and vascular biology, 2000 - Am Heart Assoc

... lesions are often heavily calcified, and it is difficult to determine the previous ... Electron microscopy

or histochemical assays for apoptosis may show evidence of ongoing **cell death**. ... and descriptive

adjectives in Figure 1 Up , suggests specific **morphological features** that represent ...

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A cautionary note on the use of the TUNEL stain to **determine** apoptosis

C Charriaut-Marlangue... - Neuroreport, 1995 - journals.lww.com

... Apoptotic body; Endonuclease A cautionary note on the use of the TUNEL stain to determine

apoptosis CA ... and sudden injury associated with an inflammatory response, apoptosis is a form

of gene-mediated **cell death** characterized by distinct **morphological features** and no ...

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Pravastatin treatment increases collagen content and decreases lipid content, inflammation, metalloproteinases, and **cell death** in human carotid plaques: implications ...

M Cristy, G Nordin-Fredriksson, PK Shah, J Yano... - Circulation, 2001 - Am Heart Assoc

... Double immunostaining for macrophages and SMCs was used to **identify** the cellular ... with weak

expression by SMCs, as identified by **morphological features**, colocalization in ... is associated with

reduced lipid content, oxidized LDL immunoreactivity, **cell death**, and inflammatory ...

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Ultrastructural **features** of fetal erythroid precursors infected with parvovirus B19 in vitro: evidence of **cell death** by apoptosis

AL Morey, DJP Ferguson... - The Journal of virology, 1993 - interscience.wiley.com

... by apoptotic **cell death**. It has been shown that transfection of the gene coding for the B19

non-structural protein is toxic to non-permissive HeLa cells,35 though the **morphological features**

of this toxicity were not described. It would be interesting to determine whether such cells ...

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www.arnis.com/documents/posters/08-003-1-pos.pdf

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"Rainbow" Reporters for Multispectral Marking and Lineage Analysis of Hematopoietic Stem Cells

TS Hawley, WG Telford... - Stem Cells, 2001 - Wiley Online Library

... Hawley, TS, Telford, WG and Hawley, RG (2001), "Rainbow" Reporters for **Multispectral** Marking and Lineage Analysis of Hematopoietic Stem Cells. STEM CELLS, 19: 118-124. doi: 10.1634/stemcells.19-2-118. Author Information. 1 **Flow Cytometry** Facility, Jerome H. Holland ...[Cited by 22](#) - [Related articles](#) - [Bib. Direct](#) - [All 5 versions](#)**Simultaneous analysis of the cyan, yellow and green fluorescent proteins by flow cytometry using single-laser excitation at 458 nm**

AJ Beavis... - Cytometry Part A, 1999 - interscience.wiley.com

... protein marker, Us9-GFP, is quantitatively retained in cells during propidium iodide-based cell cycle analysis by **flow cytometry**. ... **Flow** cytometric analysis of the cell cycle in transfected cells without cell fixation. ... 24. Haseloff J. GFP variants for **multispectral** imaging of living cells. ...[Cited by 22](#) - [Related articles](#) - [Bib. Direct](#) - [All 5 versions](#)**Analysis of violet-excited fluorochromes by flow cytometry using a violet laser diode**

WG Telford, TS Hawley... - Cytometry Part A, 2003 - Wiley Online Library

... **Cytometry** 1999; 37: 68-73. ... Four-color **flow** cytometric detection of retrovirally expressed red, yellow, green and cyan fluorescent proteins. Biotechniques 2001; 30: 1028-1034. ... "Rainbow" reporters for **multispectral** marking and lineage analysis of hematopoietic stem cells. ...[Cited by 13](#) - [Related articles](#) - [Bib. Direct](#) - [All 3 versions](#)[\[PDF\] from gwumc.edu](#)**[HTML] Profiling receptor tyrosine kinase activation by using Ab microarrays**

UB Nielsen, MH Cardone... - Proceedings of the ... 2003 - National Acad Sciences

... 2; EGFR levels are undetectable in ErbB2-transfected MCF-7 cells by **flow cytometry** and on arrays; data not shown). ... The importance of radiometric measurements for MIMs emphasizes the value of **multispectral** fluorescence detection as opposed to chemiluminescence or single ...[Cited by 171](#) - [Related articles](#) - [Bib. Direct](#) - [All 16 versions](#)[\[HTML\] from pnas.org](#)[Full View](#)**Standardization and quality control of quantitative microscopy in pathology**

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... Features such as area and distance measurements 1181, chromatin texture, and **multispectral** quantitation (unpublished data) are critically dependent on subtle aspects of ... (1987) Evaluation of a modeling system for 5-phase estimation in breast cancer by **flow cytometry**. ...[Cited by 6](#) - [Related articles](#) - [Bib. Direct](#) - [All 3 versions](#)**Cardiomyocyte apoptosis induced by G {alpha} q signaling is mediated by permeability transition pore formation and activation of the mitochondrial death pathway**

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... **Multispectral** digital images of fluorescent cellular structures were visualized by deconvolution microscopy. ... myocytes stained with MitoTracker Red were collected by trypsinization (0.05% Trypsin, 0.53 mmol/L EDTA) and prepared for quantitative analysis of m by **flow cytometry**. ...[Cited by 76](#) - [Related articles](#) - [Bib. Direct](#) - [All 5 versions](#)[\[HTML\] from ahajournals.org](#)**[PDF] Do experts make mistakes? A comparison of human and machine identification of dinoflagellates**

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... 1995), relying on developments in pattern analysis, image processing, **multi-spectral** analysis and ... combination with **multispectral** laser probes and their very limited sampling rates (2.5 ml h⁻¹ ... Geophys Union 71:94 Boddy L, Morris CW (1993) Analysis of **flow cytometry** data— a ...[Cited by 52](#) - [Related articles](#) - [Bib. Direct](#) - [All 12 versions](#)[\[PDF\] from int-res.com](#)**Green fluorescent protein as a visual marker in somatic hybridization**

G OLIVARES-FUSTER, L Pena... - Annals of ... 2002 - Annals Botany Co

... M, Mandarin, C, Carrizo citrange; M+C, somatic hybrids; L, PCR 100 bp low ladder. B. **Flow cytometry** analysis of regenerated plant. Peak 1, Diploid control; peak 2, tetraploid regenerated plant. ... Haseloff J. 1999. GFP variants for **multispectral** imaging of living cells. ...[Cited by 19](#) - [Related articles](#) - [Bib. Direct](#) - [All 6 versions](#)[\[HTML\] from oxfordjournals.org](#)**In vivo fluorescence imaging for tissue diagnostics**

S Andersson-Engels, C Klinteberg... - Physics in Medicine ... 1997 - iopscience.iop.org

... Frequently used techniques are fluorescence microscopy, **flow cytometry** and cell sorting (Dressler ... the most advanced and powerful system used for **multispectral** fluorescence imaging ... 1994 Medical diagnostic system based on simultaneous **multi-spectral** fluorescence imaging ...[Cited by 116](#) - [Related articles](#) - [Bib. Direct](#) - [All 3 versions](#)**Spectrographic imaging: A bird's-eye view of the health of coral reefs**

PJ Mumby, JRM Chisholm, CD Clark, JD Hedley... - Nature, 2001 - nature.com

... We anticipate that the application of **multispectral** remote sensing will significantly improve estimates of coral cover and changes in coral cover over time. ... Director and Chief Executive Officer, Texas A&M Health Science Center, Texas, USA. Director, **Flow Cytometry** Core Facility. ...[Cited by 45](#) - [Related articles](#) - [Bib. Direct](#) - [All 36 versions](#)[\[PDF\] from ualberta.ca](#)☒ Create email alert

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... that inhibition of the mitochondrial PT rescues cardiomyocytes from **apoptotic** cell death. ...

Multispectral digital images of fluorescent cellular structures were visualized by deconvolution microscopy. ... 0.53 mmol/L EDTA) and prepared for quantitative analysis of m by **flow cytometry**. ...

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The lymphatic system in body homeostasis: physiological conditions

WŁ Olszewski - Lymphatic Research and Biology, 2003 - liebertonline.com

... Data obtained from normal human subjects on lymph composition and **flow** are presented. ... extravasation of progenitors and mature immune reg- ulatory and effector cells, accumulation of parenchymal cell products, cellular debris from **apoptotic** or **necrotic** cells, penetrating ...

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[HTML] The myxoma poxvirus protein, M11L, prevents **apoptosis** by direct interaction with the mitochondrial permeability transition pore

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H Everett, M Barry, X Sun, SF Lee... - The Journal of ... 2002 - jem.rupress.org

... transfected as described above and after 24 h, were split into replicate wells and the cells were subjected to **apoptosis** induction. ... Cells were harvested by trypsinization, then EGFP and TMRE fluorescence were analyzed in live cells by **flow cytometry** using a Becton Dickinson ...

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... Cytogenetic examination Functional activity of nuclear chromatin, one-stranded DNA break, **apoptosis** and micronucleus test ... (1990) and **multispectral** fluorescence microscopy standard kit (MultiSpeck, Molecular Probes, Eugene, Oregon, USA). ...

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Abstracts of the 8th Congress of ESACP, the 15th International Congress of ISDQP and the 6th Congress of the European Group of Telepathology, Heracleion, Crete, ...

RPIN TELEMEDICINE ... - Analytical Cellular Pathology, 2002 - IOS Press

Page 1. Analytical Cellular Pathology 24 (2002) 181-227 181 IOS Press Abstracts of the 8th Congress of ESACP, the 15th International Congress of ISDQP and the 6th Congress of the European Group of Telepathology, Heracleion, Crete, 14-21 September 2002 ...

In vivo fluorescence spectroscopy and imaging for oncological applications

GA Wagnieres, WM Star... - Photochemistry and ... 1998 - interscience.wiley.com

... in vitro use of these techniques is routinely performed in, for example, fluorescence microscopy @istology) (1,2), **flow cytometry** and cell ... absorbing dye (peak at 732 nm) that seems to be selectively phototoxic to tumors via **apoptosis** rather than by **necrosis** resulting from ...

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A ULLEN - Acta Oncologica, 1997 - informahealthcare.com

... Quantitative determinations of volume densities of viable tumour cells, **necrotic** cells and connective tissue demonstrated no signifi- cant differences ... Cell proliferation rate determined as the SPF from paraffin- embedded tissue by **flow cytometry** had an excellent correlation with ...

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Humanized green fluorescent protein genes and methods

S Zolotukhin, N Muzyczka... - US Patent 5,968,750, 1999 - Google Patents

... Feb., 1994. Cheng and Kain, "Analysis of GFP and RSGFP Expression in Mammalian Cells by **Flow Cytometry**," Clontechniques, X(4):20, Oct., 1995. Clontech Catalog, 1995-1996, pp. 156-160, Palo Alto, California. Clontech ...

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N Muzyczka, S Zolotukhin... - US Patent 6,020,192, 2000 - Google Patents

Page 1. United States Patent Muzyczka et al. US006020192A [ii] Patent Number: [45] Date of Patent: 6,020,192 *Feb. 1,2000 [54] HUMANIZED GREEN FLUORESCENT PROTEIN GENES AND METHODS [75] Inventors: Nicholas ...

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[PDF] British Society for Investigative Dermatology, Annual Meeting Warwick, 9±11 April 2001 Programme and Abstracts

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A rapid method for measuring **apoptosis** and dual-color immunofluorescence by single laser **flow cytometry**

I Schmid, CH Uittenbogaart, B Keld... - *Journal of Immunological* ..., 1994 - Elsevier
... for measuring **apoptosis** and dual-color immunofluorescence by single laser **flow cytometry** Ingrid Schmid ,a ... Unfixed cells are stained with 7-amino-actinomycin D (**7-AAD**) for discrimination of live ... cells and from cells which have lost membrane integrity (late **apoptotic** or **necrotic** ...

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Sensitive method for measuring **apoptosis** and cell surface phenotype in human thymocytes by **flow cytometry**

I Schmid, CH Uittenbogaart... - *Cytometry Part A*, 1994 - interscience.wiley.com
... **7-AAD**. C: FSC vs. SSC contour plot, gated on the **apoptotic** population (gate 1). D: GI⁺ peaks by **flow cytometry** and also the formation of characteristic DNA ladders on agarose gels might be a function of individual cellular homeostasis. ...

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Flow cytometry of apoptotic cell death

I Vermees, C Haanen... - *Journal of Immunological* ..., 2000 - Elsevier
... A number of these can be exploited to discriminate vital and dying cells and to analyse the extent and the type of cell death (**apoptosis** or **necrosis**). In this review those cellular changes, which can be measured by **flow cytometry** (FCM), are discussed according to the sequence ...

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Multiparametric **flow cytometric analysis of biochemical and functional events associated with apoptosis and oncosis using the 7-aminoactinomycin D assay**

H Lecoœur, LM de Oliveira-Pinto... - *Journal of Immunological* ..., 2002 - Elsevier
... **Apoptosis** and primary **necrosis** are the two modes of cell death induced by a lethal injury. The majority of structural and biochemical events occurring during cell death can be analysed by **flow cytometry**. The 7-aminoactinomycin D (**7-AAD**) assay can be used to detect the loss ...

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A rapid single-laser **flow cytometric method for discrimination of early apoptotic cells in a heterogenous cell population**

O HERAULT, P COLOMBAT ... - *British journal of* ..., 1999 - Wiley Online Library
... The microscopic examination of cell morphology, representing one of the most reliable parameters for confirmation of **apoptotic** changes, confirmed the **flow cytometry** results after cell sorting for **apoptotic** and **necrotic** states. We extended the experiment with **7-AAD** and annexin ...

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Salmonella induces macrophage death by caspase-1-dependent necrosis

MA Brennan ... - *Molecular Microbiology*, 2000 - Wiley Online Library
... annexin V and vital dye 7-aminoactinomycin D and immediately evaluated by **flow cytometry**. ... V staining of cells with intact plasma membranes excluding vital dye (**7-AAD**-negative cells). ... **Necrotic** cells lose membrane integrity early after injury, whereas **apoptotic** cells delay this ...

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Mannose-binding lectin engagement with late apoptotic and necrotic cells

AJ Nauta, N Raaschou-Jensen... - *European journal* ..., 2003 - interscience.wiley.com
... Based on annexin V and **7-AAD**-staining, the cells were divided into three populations (upper panel). ... presence of MBL, more than 40% of the blebs stained positive for MBL as detected by **flow cytometry**, whereas the ... 2.4 MBL binding to **apoptotic** cells involves the lectin domain ...

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Strategies for phenotyping apoptotic peripheral human lymphocytes comparing ISNT, annexin-V and 7-AAD cytofluorometric staining methods

H Lecoœur, E Ledru, MC Prévost... - *Journal of Immunological* ..., 1997 - Elsevier
... **Apoptotic** cells exhibit morphological modifications which are readily detected by **flow cytometry** according to ... **apoptotic** cells, exhibiting a cell shrinkage comparable to early **apoptotic** lymphocytes (low ... SSC), but showing a complete loss of membrane integrity (**7-AAD** high , gate ...

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Comparison of cell viability probes compatible with fixation and permeabilization for combined surface and intracellular staining in flow cytometry

MC O'Brien... - *Cytometry*, 1995 - Wiley Online Library
... criminally. Actin-SAM-FITC, EMA, and **7-AAD** did not display sufficiently high signal-to-noise ratios over the entire time course. Cytokeratin ... probe. o 1995 Wiley-Liss, Inc. Key terms: Viability, cell death, **necrosis**, **apoptosis**, **flow cytometry** Cell ...

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Detection and characterization of apoptotic peripheral blood lymphocytes in human immunodeficiency virus infection and cancer chemotherapy by a novel flow ...

M Carbonari, M Cibati, M Cherchi... - ..., 1994 - bloodjournal.hematologylibrary.org
... After one wash, cells were resuspended in complete medium and analyzed by **flow cytometry**. Membrane permeability, as an indicator of late **apoptosis** and cell death, was evaluated by staining with propidium iodide (PI) or **7-AAD** (Sigma Chemical CO, St Louis, MO ...

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